(19) World Intellectual Property ()rganization

International Bureau



HERDE BINRYCK IN BURUN KUNN BOND BEID BIN BEN FOLKRONIK BURUN BONN HERDE HIR DE BIN BURUN HERBE HIR DE BE

(43) International Publication Date 8 July 2004 (08.07.2004)

PCT

(10) International Publication Number WO 2004/057715 A3

(51) International Patent Classification7: E21B 23/06

(21) International Application Number:

PCT/NO2003/000410

(22) International Filing Date: 9 December 2003 (09.12.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 20025911

10 December 2002 (10.12.2002) NO

(71) Applicant and

(72) Inventor: FREYER, Rune [NO/NO]; Vålandsgaten 12. N.4010 STAVANGER (NO).

(74) Agent: HÅMSØ PATENTBYRÅ ANS: P.O. Box 171, N-4302 SANDNES (NO).

(81) Designated States (national): AE, AG, AL, AM, AT (utility model), AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA. CH, CN, CO, CR, CU, CZ (utility model), CZ, DE (utility model), DE, DK (utility model), DK, DM, DZ, EC. EE (utility model), EE, EG, ES, FI (utility model), FI, GB, GD, GE, GH, GM, HR, HU, ID, H., IN, IS, JP, KE, KG. KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG. MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT (utility model), PT, RO, RU, SC, SD, SE, SG, SK (utility model), SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

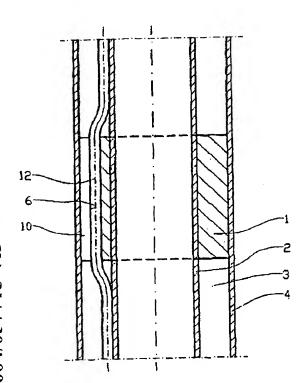
(84) Designated States (regional): ARIPO patent (BW. GH. GM, KE. LS. MW, MZ. SD. SL. SZ, TZ. UG. ZM. ZW). Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM). European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FL FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR). OAPI patent (BE BJ, CE, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

[Continued on next page]

(54) Title: A CABLE DUCT DEVICE IN A SWELLING PACKER



(57) Abstract: A cable duct device in a swellable packer (1) of the kind in which the packer (1) is adapted to be able of sealing an annulus (3), and in which the swellable packer (1) is provided with at least one opening (6) therethrough adapted to constitute a duct for a cable (12).

II-II

BEST AVAILABLE COPY

WO 2004/057715 A3

- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.
- (88) Date of publication of the international search report: 14 October 2004

INTERNATIONAL SEARCH REPORT

International application No. PCT/NO 2003/000410

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: E21B 23/06
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI DATA, EPO-INTERNAL

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Further documents are listed in the continuation of Box C.

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	US 6173788 B1 (JEFFREY J. LEMBECKE ET AL), 16 January 2001 (16.01.2001), See whole document	1-5
Х	US 3899631 A1 (BILLY E. CLARK), 12 August 1975 (12.08.1975), see wole document	1-5
A	US 6135210 A1 (OLEGARIO S. RIVAS), 24 October 2000 (24.10.2000), column 4, line 61 - column 5, line 20	1-5
		
A	US 2242166 A1 (E. O. BENNETT), 13 May 1941 (13.05.1941), figures 3-4	1-5

* "A"	to be of particular relevance earlier application or patent but published on or after the international filing date document which may throw doubts on priority claim(s) or which is		later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention			
"E"			document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone			
"O"	cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed	"Y"	document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combinated being obvious to a person skilled in the art document member of the same patent family			
Dat	e of the actual completion of the international search	Date of mailing of the international search report				
18 August 2004		2 0 -08- 2004				
Name and mailing address of the ISA/			Authorized officer			
Swedish Patent Office		·				
Box 5055, S-102 42 STOCKHOLM			Kerstin Waczinska/MN			
Facsimile No. +46 8 666 02 86			Telephone No. + 46 8 782 25 00			

Form PCT/ISA/210 (second sheet) (January 2004)

BEST AVAILABLE COPY

X See patent family annex.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/NO 2003/000410

U	s	6173788	B1	16/01/2001	GB GB NO NO	2336170 9907757 315437 991638	D B	13/10/1999 00/00/0000 01/09/2003 08/10/1999
U	S	3899631	A1	12/08/1975	NONE			
U	S	6135210	A1	24/10/2000	CA GB GB	2277566 2339816 9915984	A,B	16/01/2000 09/02/2000 00/00/0000
U	S	2242166	A1	13/05/1941	NONE			***********

BEST AVAILABLE COPY

Form PCT/ISA/210 (patent family annex) (January 2004)